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**W-8000 München 22 (DE)**(54) **Method and kit for measuring anti-EBNA antibodies.**

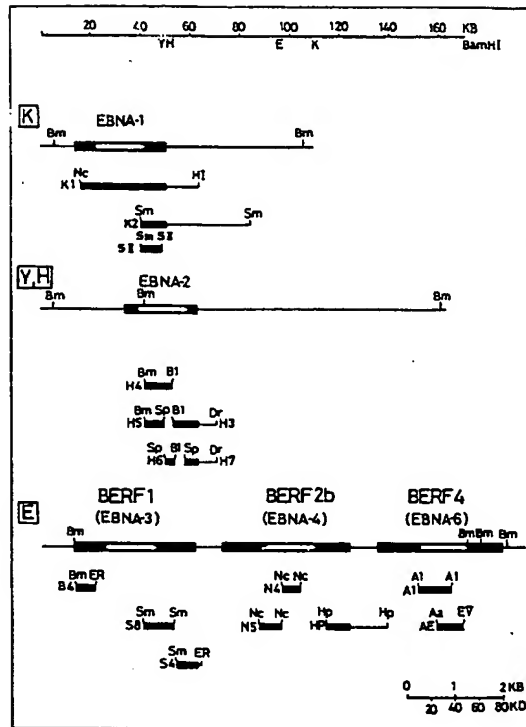
(57) This invention provides a simple immunoassay system and a measuring kit for use in the measurement of anti-EBNA antibodies, in which recombinant type EBNA proteins are used. The anti-EBNA antibody measuring kit is useful for the individual measurement of anti-EBNA-1 antibodies, anti-EBNA-2 antibodies, anti-EBNA-3 antibodies, anti-EBNA-4 antibodies, anti-EBNA-5 antibodies and anti-EBNA-6 antibodies.

Particularly, this invention provides a method for the measurement of anti-EBNA antibodies which comprises the steps of allowing anti-EBNA antibodies in a test sample to react with a recombinant type EBNA fusion protein immobilized on a support

through an anti- $\beta$ -galactosidase antibody, allowing the anti-EBNA antibodies to react with an enzyme-conjugated anti-EBNA antibody and measuring a signal (enzyme activity) generated from the conjugated enzyme contained in an immune complex formed by the above steps.

Also particularly, this invention provides an anti-EBNA antibody measuring kit in which an anti- $\beta$ -galactosidase antibody and a recombinant type EBNA fusion protein are immobilized on a support through binding of the anti- $\beta$ -galactosidase antibody to the support and binding of the recombinant type EBNA fusion protein to the anti- $\beta$ -galactosidase antibody.

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X	WO-A-8 601 210 (SCRIPPS CLINIC AND RESEARCH FOUNDATION)  * page 6 - page 7 * * page 12 * * page 13, line 33 - page 14, line 8 * * page 14, line 29 - page 15, line 6 * * page 35, line 7 - line 8 * * page 47 - page 50 *	1-4, 11, 21-23, 26, 39, 40	
Y		5-10, 12-20, 24, 25, 27-38, 41-58	
Y	KEMENY ET AL. (EDS.) 'ELISA and other solid phase immunoassays. Theoretical and practical aspects' 1988, JOHN WILEY & SONS, CHICHESTER  Kemeny et al. 'An introduction to ELISA' * page 1 - page 29; figures 1-6 * ---	5-10, 12-20, 24, 25, 27-38, 41-58	TECHNICAL FIELDS SEARCHED (Int. CL.5)
D,X	JOURNAL OF INFECTIOUS DISEASES vol. 156, no. 1, July 1987, CHICAGO, ILL. pages 26 - 35 MILLER ET AL. 'Selective lack of antibody to a component of EB nuclear antigen in patients with chronic active Epstein-Barr virus infection' * page 27, right column - page 28, right column * ---	1, 2, 59, 60	C07K G01N
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The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 16 FEBRUARY 1993	Examiner CEDER O.
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document  T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons * : member of the same patent family, corresponding document			



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D,X	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES vol. 84, no. 2, January 1987, WASHINGTON DC pages 570 - 574 HENLE ET AL. 'Antibody responses to Epstein-Barr virus-determined nuclear antigen (EBNA)-1 and EBNA-2 in acute and chronic Epstein-Barr virus infection' * page 571, left column *	1,2	
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A	WO-A-9 001 495 (SCRIPPS CLINIC AND RESEARCH FOUNDATION) ---	1-4	
E	DATABASE WPIL Week 9238, Derwent Publications Ltd., London, GB; AN 92-313682 & JP-A-4 221 399 (MOCHIDA ET AL.) 11 August 1992 * abstract * -----		
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